



Wednesday, March 18, 2020

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCF50734
Sample ID#s: CF50734 - CF50736

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

March 18, 2020

SDG I.D.: GCF50734

Project ID: GULF CHELSEA TERMINAL 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CF50734	SW DISCHARGE
TRIP BLANK 1	CF50735	SW DISCHARGE
TRIP BLANK 2	CF50736	SW DISCHARGE



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Analysis Report

March 18, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

03/16/20
03/16/20

Time

8:50
14:14

Laboratory Data

SDG ID: GCF50734
Phoenix ID: CF50734

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	03/17/20	MSF	EPA 1664
pH	8.03	1.00	pH Units	1	03/16/20 20:07	AP/KDB	SM4500-H B-11
Total Suspended Solids	16	5.0	mg/L	1	03/16/20	QH	SM 2540D-11
Semi-Volatile Extraction	Completed				03/16/20	P/AK	SW3520C

Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	03/16/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	03/16/20	MH	E624.1

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	100		%	1	03/16/20	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	03/16/20	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	03/16/20	MH	70 - 130 %
% Toluene-d8	111		%	1	03/16/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.10	ug/L	1	03/17/20	WB	E625.1
Napthalene	ND	0.48	ug/L	1	03/17/20	WB	E625.1

QA/QC Surrogates

% 2-Fluorobiphenyl	52		%	1	03/17/20	WB	40 - 140 %
% Nitrobenzene-d5	45		%	1	03/17/20	WB	40 - 140 %
% Terphenyl-d14	40		%	1	03/17/20	WB	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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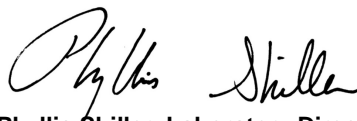
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director

March 18, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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Analysis Report

March 18, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

03/16/20

Time

14:14

Laboratory Data

SDG ID: GCF50734
Phoenix ID: CF50735

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	03/16/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	03/16/20	MH	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	03/16/20	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	03/16/20	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	03/16/20	MH	70 - 130 %
% Toluene-d8	108		%	1	03/16/20	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

March 18, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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Analysis Report

March 18, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

03/16/20

Time

14:14

Laboratory Data

SDG ID: GCF50734
Phoenix ID: CF50736

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	03/16/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	03/16/20	MH	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	03/16/20	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	03/16/20	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	03/16/20	MH	70 - 130 %
% Toluene-d8	99		%	1	03/16/20	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

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QA/QC Report

March 18, 2020

QA/QC Data

SDG I.D.: GCF50734

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 522732 (mg/L), QC Sample No: CF49570 (CF50734)													
Oil and Grease by EPA 1664A	BRL	1.4				99.0	97.0	2.0				85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 522628 (mg/L), QC Sample No: CF50474 (CF50734)													
Total Suspended Solids	BRL	2.5	<5.0	<10	NC	98.0						85 - 115	
QA/QC Batch 522744 (pH), QC Sample No: CF50586 (CF50734)													
pH			7.07	7.05	0.30	99.3						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													



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QA/QC Report

March 18, 2020

QA/QC Data

SDG I.D.: GCF50734

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 522636 (ug/L), QC Sample No: CF49468 (CF50734)										
<u>Semivolatiles by SIM, PAH</u>										
Benzo(a)pyrene	ND	0.02	74	31	81.9				40 - 140	20 I,r
Naphthalene	ND	0.50	47	64	30.6				40 - 140	20 r
% 2-Fluorobiphenyl	52	%	53	55	3.7				40 - 140	20
% Nitrobenzene-d5	62	%	58	66	12.9				40 - 140	20
% Terphenyl-d14	62	%	58	55	5.3				40 - 140	20

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 522768 (ug/L), QC Sample No: CF50735 (CF50734, CF50735, CF50736)

Volatiles

Benzene	ND	0.70	90	84	6.9	101	108	6.7	65 - 135	20
Naphthalene	ND	1.0	92	94	2.2	105	110	4.7	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	98	2.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	103	3.0	101	103	2.0	70 - 130	30
% Dibromofluoromethane	95	%	97	95	2.1	93	93	0.0	70 - 130	30
% Toluene-d8	90	%	101	95	6.1	97	105	7.9	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample


LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
March 18, 2020

Wednesday, March 18, 2020

Criteria: None
State: MA

Sample Criteria Exceedances Report
GCF50734 - AECOME-GULF

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

March 18, 2020

SDG I.D.: GCF50734

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

